PATENT COOPERATION TREATY

From the INTERNATIONAL SEARCHING AUTHORITY DAVID L. FEIGENBAUM FISH & RICHARDSON P.C. NOTIFICATION OF TRANSMITTAL OF 225 FRANKLIN STREET THE INTERNATIONAL SEARCH REPORT BOSTON, MA 02110 OR THE DECLARATION (PCT Rule 44.1) Date of Mailing (day/month/year) 29 OCT 2002 Applicant's or agent's file reference FOR FURTHER ACTION See paragraphs 1 and 4 below 12144-007WO1 International filing date International application No. (day/month/year) PCT/US02/20380 25 June 2002 (25.06.2002) Applicant AIRVANA, INC The applicant is hereby notified that the international search report has been established and is transmitted herewith. \bowtie Filing of amendments and statement under Article 19: The applicant is entitled, if he so wishes, to amend the claims of the international application (see Rule 46): When? The time limit for filing such amendments is normally two months from the date of transmittal of the international search report. Where? Directly to the International Bureau of WIPO, 34, chemin des Colombettes 1211 Geneva 20, Switzerland, Facsimile No.: (41-22) 740.14.35 For more detailed instructions, see the notes on the accompanying sheet. The applicant is hereby notified that no international search report will be established and that the declaration under Article 17(2)(a) to that effect is transmitted herewith. With regard to the protest against payment of (an) additional fee(s) under Rule 40.2, the applicant is notified that: the protest together with the decision thereon has been transmitted to the International Bureau together with the applicant's request to forward the texts of both the protest and the decision thereon to the designated Offices. no decision has been made yet on the protest; the applicant will be notified as soon as a decision is made. 4. Reminders Shortly after 18 months from the priority date, the international application will be published by the International Bureau. If the applicant wishes to avoid or postpone publication, a notice of withdrawal of the international application, or of the priority claim, must reach the International Bureau as provided in Rules 90 bis.1 and 90 bis.3, respectively, before the completion of the technical preparations for international publication. Within 19 months from the priority date, but only in respect of some designated Offices, a demand for international preliminary examination must be filed if the applicant wishes to postpone the entry into the national phase until 30 months from the priority date (in some Offices even later); otherwise the applicant must, within 20 months from the priority date, perform the prescribed acts for entry into the national phase before those designated Offices. In respect of other designated Offices, the time limit of 30 months (or later) will apply even if no demand is filed within 19 months. See the Annex to Form PCT/IB/301 and, for details about the applicable time limits, Office by Office, see the PCT Applicant's Guide, Volume II, National Chapters and the WIPO Internet site. Authorized offic Name and mailing address of the ISA/US Huy Vu Kugenia Zogar Telephone No. NA Commissioner for Patents Box PCT Washington, D.C. 20231 Facsimile No. (703)305-3230

Form PCT/ISA/220 (April 2002)

PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference 12144-007WO1	FOR FURTHER ACTION	see Notification of Transmittal of International Search Report (Form PCT/ISA/220) as well as, where applicable, item 5 below.	
International application No. PCT/US02/20380	International filing date (day/mor 25 June 2002 (25.06.2002)	ıth/year)	(Earliest) Priority Date (day/month/year) 25 June 2001 (25.06.2001)
Applicant AIRVANA, INC			
This international search report has been applicant according to Article 18. A c	opy is being transmitted to the m	Searching cernational	Authority and is transmitted to the Bureau.
This international search report consist It is also accompanie	ed by a copy of each prior art doc	ument cite	ed in this report.
lam mage in which it was file	d unless otherwise material and calculated	uns nom.	ne basis of the international application in the
the international search was Authority (Rule 23.1(b)). b. With regard to any nucleotic search was carried out on the	as carried out on the basis of a tran- de and/or amino acid sequence di- e basis of the sequence listing:	slation of t	he international application furnished to this the international application, the international
filed together with the inte	nal application in written form. ernational application in computer	readable fo	m.
	this Authority in written form.	•	
furnished subsequently to	this Authority in computer readabl	e form.	have disclosure in the
international application a	as filed has been furnished.		oes not go beyond the disclosure in the
been furnished.		lable form	is identical to the written sequence listing has
	nd unsearchable (See Box I).		
3. Unity of invention is lac. 4. With regard to the title,	king (See Box II).		
4. With regard to the title, the text is approved as su	bmitted by the applicant.		
	hed by this Authority to read as fol	lows:	
5. With regard to the abstract,	to the the smaller out		
M	abmitted by the applicant. thed, according to Rule 38.2(b), by from the date of mailing of this inte	this Authornational s	ority as it appears in Box III. The applicant earch report, submit comments to this
6. The figure of the drawings to be	published with the abstract is Figu	re No. <u>1</u>	N 64-6
as suggested by the appli			None of the figures
because the applicant fai			
because this figure bette	r characterizes the invention.		

Form PCT/ISA/210 (first sheet) (July 1998)

INTERNATIONAL SEARCH REPORT

International application No.

PCT/US02/20380

Box III TEXT OF THE ABSTRACT (Co			<u> </u>			
In connection with a mobile wireless subnetwork having multiple radio network controllers (RNC) and multiple radio nodes(RN), a session established for an access terminal (AT) is associated with a serving radio network controller. The association is maintained as the access terminal (AT) moves from the coverage area of one radio node (RN) to the coverage area of another radio node (RN) within some subnetwork. Access channel packets are routed from an access terminal (AT) having an existing session to node (RN) within some subnetwork controller (RNC) by determining the IP address of the serving radio network controller (RNC) using a session identifier						
			•			

Form PCT/ISA/210 (continuation of first sheet(2)) (July 1998)

INTERNATIONAL SEARCH REPORT

International application No.

PCT/US02/20380

US CL : 370/331 According to International Patent Classification (IPC) or to both national classification and IPC		SIFICATION OF SUBJECT MATTER		
B. FIELD SEARCHED Minimum documentation searched (classification system followed by classification symbols) U.S.: 370/328, 329, 331, 352, 353, 354, 355; 455/421, 422, 432, 436; 709/238, 249 Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) Please See Continuation Sheet C. DOCUMENTS CONSIDERED TO BE RELEVANT Category * Citation of document, with indication, where appropriate, of the relevant passages Relevant to claim No. X, P US 6,256,561 BI (SUBBIAH et al.), 26 JUNE 2001, all Y, P US 6,393,482 BI (RAI et al.), 21 MAY 2002, figure 16 Y, E US 6,445,922 BI (HILLER et al.), 03 SEPTEMBER 2002, figure 2 Y, P US 6,256,600 BI (AHMED et al.), 03 JULY 2001, figures 3A, 7, 8A and 8B 1.34 Septatal categories of clied documents: "I" extrict application or passar published on or after the international filing data or pricingly or the company of the compa	IPC(7)	: H04Q 7/00 : 370/331		ł
Minimum documentation searched (classification system followed by classification symbols) U.S.: \$709328, 329, 331, 352, 353, 354, 355; 455/421, 422, 432, 436; 709/238, 249 Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched leterorise data base consulted during the international search (name of data base and, where practicable, search terms used) Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) Please Sec Continuation Sheet C. DOCUMENTS CONSIDERED TO BE RELEVANT Category * Citation of document, with indication, where appropriate, of the relevant passages Relevant to claim No. X, P US 6,356,961 Bi (SUBBAH et al.), 02 APRIL 2002, abstract and figure 1 1-34 Y, P US 6,358,862 Bi (SAUER et al.), 25 JUNE 2001, all 1-34 Y, P US 6,358,862 Bi (RAI et al.), 21 MAY 2002, figure 16 Y, E US 6,445,922 Bi (HILLER et al.), 03 SEPTEMBER 2002, figure 2 1-34 Y, P US 6,256,300 Bi (AHMED et al.), 03 JULY 2001, figures 3A, 7, 8A and 8B 1-34 US 6,256,300 Bi (AHMED et al.), 03 JULY 2001, figures 3A, 7, 8A and 8B 1-34 List document efficing the general state of the art which is not considered to be restleted and relevance. "E' entire application or passes published on or after the international filing date to entitle the february that principle or theory underlying the investory and the extension of principle or theory underlying the investory and the extension of principle or theory underlying the investory and the extension of passes published on or after the international filing date to entitle the february that principle or the extension of principle or theory underlying the investory and the constitution or other special reason (or special extension or passes published on or after the international filing date to entitle the february that the constitution or other special reason (or special extension or other special extension (or special extension or other special exten	According to	International Patent Classification (IPC) or to both nat	ional classification and IPC	
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) Please See Continuation Sheet C. DOCUMENTS CONSIDERED TO BE RELEVANT Category * Citation of document, with indication, where appropriate, of the relevant passages Relevant to claim No. X, P US 6,366,961 B1 (SUBBIAH et al.), 22 APRIL 2002, abstract and figure 1 1-34 Y, P US 6,365,961 B1 (SAUBER et al.), 26 JUNE 2001, all 1-34 Y, P US 6,459,3482 B1 (RAI et al.), 21 MAY 2002, figure 16 Y, P US 6,445,922 B1 (HILLER et al.), 03 SEPTEMBER 2002, figure 2 Y, P US 6,256,300 B1 (AHMED et al.), 03 JULY 2001, figures 3A, 7, 8A and 8B 1-34 List document published on the state of the at which is not considered to be of periodic relevance "C" eather application or putery published on or after the international filing date or priority chains for which is cited to enable the published on or other special relation to the constitution to the constitution of the constitution of the constitution of the international filing date to an ord disclosure, use, cabbistion or other mental to excuse a priority date for the international filing date ba later than the priority date for the international filing date ba later than the priority date for the international filing date ba later than the priority date for the international filing date ba later than the priority date for the international filing date ba later than the priority date for the international filing date ba later than the priority date for the state of another relations or other special relation to the counser its later date for the counser its later date for the deciment is later than the constitution of the counser its later than the priority date for the later than the priority date for the later than the priority date for the later than the constitution of other special relation to other special relation to th	B. FIELD	OS SEARCHED		
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) Please See Continuation Sheet C. DOCUMENTS CONSIDERED TO BE RELEVANT Category * Citation of document, with indication, where appropriate, of the relevant passages Relevant to claim No. X, P US 6,366,961 B1 (SUBBIAH et al.), 22 APRIL 2002, abstract and figure 1 1.34 Y, P US 6,365,961 B1 (SUBBIAH et al.), 26 JUNE 2001, all 1.34 Y, P US 6,459,3482 B1 (RAI et al.), 21 MAY 2002, figure 16 Y, E US 6,445,922 B1 (HILLER et al.), 03 SEPTEMBER 2002, figure 2 Y, P US 6,256,300 B1 (AHMED et al.), 03 JULY 2001, figures 3A, 7, 8A and 8B 1.34 See patent family annex. See patent family annex. Ister document published of the first or the international filing date or priority chains of the continuation of Box C. **Comment of principal relevance or other special reason (as specified) "Comment of principal relevance or other special reason (as specified) "Comment of principal relevance or other special reason (as specified) "Comment of principal relations are of the comment of the special reason (as specified) "Comment of principal relations are of the special reason (as specified) "Comment of principal relations are of the special reason (as specified) "Comment of principal relations are of the special reason (as specified) "Comment of principal relations are of the special reason (as specified) "Comment of principal relations are of the special reason (as specified) "Comment of principal relations are of the special reason (as specified) "Comment of the substract of the comment of the substraction of the substraction of the special reason (as specified) Date of the actual completion of the international search 20 September 2002 (20,09,0002) Name and making address of the ISA/US Comment of principal relations are of the special reason (as special reason)	Minimum doc	umentation searched (classification system followed b	y classification symbols)	
Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) Please Sec Continuation Sheet C. DOCUMENTS CONSIDERED TO BE RELEVANT Category * Citation of document, with indication, where appropriate, of the relevant passages Relevant to claim No. X, P US 6,365,961 BI (SUBBIAH et al.), 26 JUNE 2001, all Y, P US 6,393,482 BI (RAI et al.), 25 JUNE 2001, all Y, E US 6,445,922 BI (HILLER et al.), 03 SEPTEMBER 2002, figure 2 Y, P US 6,256,300 BI (AHMED et al.), 03 JULY 2001, figures 3A, 7, 8A and 8B 1-34 Last document affecting the precent size of the art which is not considered to be of particular relevance. The content of the publication date of arother citation or other special reason (as specified). "C" document which may throw doods on priority claim(s) or which is clied to eparticular relevance, the claimed lowerison accents be considered to involve an investible relevance to the considered to involve an investible of the set of countered to the relevant passages. The comment published gives to the international filing date but lawr than the priority date claimed. Date of the actual completion of the international search Dute of the actual completion of the international search 20 September 2002 (20.09.2002) Name and mailing address of the ISA/US Commissioner of Patents and Trachmards box of the Commissioner of Patents and Trachmard	U.S. : 37	70/328, 329, 331, 352, 353, 354, 355; 455/421, 422, 4	432, 436; 709/238, 249	
Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) Please Sec Continuation Sheet C. DOCUMENTS CONSIDERED TO BE RELEVANT Category * Citation of document, with indication, where appropriate, of the relevant passages Relevant to claim No. X, P US 6,365,961 BI (SUBBIAH et al.), 26 JUNE 2001, all Y, P US 6,393,482 BI (RAI et al.), 25 JUNE 2001, all Y, E US 6,445,922 BI (HILLER et al.), 03 SEPTEMBER 2002, figure 2 Y, P US 6,256,300 BI (AHMED et al.), 03 JULY 2001, figures 3A, 7, 8A and 8B 1-34 Last document affecting the precent size of the art which is not considered to be of particular relevance. The content of the publication date of arother citation or other special reason (as specified). "C" document which may throw doods on priority claim(s) or which is clied to eparticular relevance, the claimed lowerison accents be considered to involve an investible relevance to the considered to involve an investible of the set of countered to the relevant passages. The comment published gives to the international filing date but lawr than the priority date claimed. Date of the actual completion of the international search Dute of the actual completion of the international search 20 September 2002 (20.09.2002) Name and mailing address of the ISA/US Commissioner of Patents and Trachmards box of the Commissioner of Patents and Trachmard				
C. DOCUMENTS CONSIDERED TO BE RELEVANT Category * Citation of document, with indication, where appropriate, of the relevant passages Relevant to claim No. X, P US 6,366,961 BI (SUBBIAH et al.), 02 APRIL 2002, abstract and figure 1 1-34 X, P US 6,356,962 BI (SAUER et al.), 26 JUNE 2001, all Y, P US 6,393,482 BI (RAI et al.), 21 MAY 2002, figure 16 Y, E US 6,445,922 BI (HILLER et al.), 03 SEPTEMBER 2002, figure 2 1-34 Y, P US 6,256,300 BI (AHMED et al.), 03 JULY 2001, figures 3A, 7, 8A and 8B 1-34 Leave focusers defining the general state of the art which is not considered to be of patricular relevance of patricular relevance of patricular relevance of the patricular relevance, the claimed invertion cannot be considered to the considered to involve an inventive step when the document is taken also considered to involve an inventive step when the document is taken also considered to involve an inventive step when the document is taken also considered to involve an inventive step when the document is taken also considered to involve an inventive step when the document is taken also considered to involve an inventive step when the document is taken also considered to involve an inventive step when the document is taken also considered to involve an inventive step when the document is taken also considered to involve an	Documentation	on searched other than minimum documentation to the	extent that such documents are included	in the fields searched
C. DOCUMENTS CONSIDERED TO BE RELEVANT Category * Citation of document, with indication, where appropriate, of the relevant passages Relevant to claim No. X, P US 6,366,961 BI (SUBBIAH et al.), 02 APRIL 2002, abstract and figure 1 1-34 X, P US 6,366,961 BI (SAUER et al.), 26 JUNE 2001, all 1-34 Y, P US 6,393,482 BI (RAI et al.), 21 MAY 2002, figure 16 1-34 Y, E US 6,445,922 BI (HILLER et al.), 03 SEPTEMBER 2002, figure 2 1-34 Y, P US 6,256,300 BI (AHMED et al.), 03 JULY 2001, figures 3A, 7, 8A and 8B 1-34 Learning of the patricular relevance of thing does not after the international fling does or patricular relevance of the patricular releva	Electronic da	ta base consulted during the international search (name	e of data base and, where practicable, s	earch terms used)
Category * Citation of document, with indication, where appropriate, of the relevant passages Rejevant to Claim No. X, P	Please See Co	ontinuation Sheet		
Category * Citation of document, with indication, where appropriate, of the relevant passages Rejevant to Calan No. X, P	C. DOCI	UMENTS CONSIDERED TO BE RELEVANT		S. L. L. No.
X, P US 6,366,961 B1 (SUBBIAH et al.), 02 APRIL 2002, abstract and figure 1 Y, P US 6,252,862 B1 (SAUER et al.), 26 JUNE 2001, all Y, P US 6,393,482 B1 (RAI et al.), 21 MAY 2002, figure 16 1-34 Y, P US 6,445,922 B1 (HILLER et al.), 03 SEPTEMBER 2002, figure 2 Y, P US 6,256,300 B1 (AHMED et al.), 03 JULY 2001, figures 3A, 7, 8A and 8B 1-34 Locument of fising the general state of the art which is not considered to be of particular relevance "B" eatler application or pasers published on or after the international filing date or other special reason (as specified) "C" document referring to an oral disclosure, use, exhibition or other means "P" document published prior to the international filing date to later than the priority date claimed "C" document referring to an oral disclosure, use, exhibition or other means "P" document referring to an oral disclosure, use, exhibition or other means "P" document referring to an oral disclosure, use, exhibition or other means "P" document referring to an oral disclosure, use, exhibition or other means "P" document referring to an oral disclosure, use, exhibition or other means "P" document referring to an oral disclosure, use, exhibition or other means "P" document referring to an oral disclosure, use, exhibition or other means "P" document referring to an oral disclosure, use, exhibition or other means "P" document referring to an oral disclosure, use, exhibition or other means "P" document published prior to the international search "Date of the actual completion of the international search "Date of mailing of the international search report 2 9 OCT 2002 Authorized officer Huy Vu Telephone No. N/A		Citation of document, with indication, where ap	propriate, of the relevant passages	
X, P US 6,252,862 B1 (SAUER et al.), 25 JUNE 2001, all 1-34 Y, P US 6,393,482 B1 (RAI et al.), 21 MAY 2002, figure 16 1-34 Y, P US 6,445,922 B1 (HILLER et al.), 03 SEPTEMBER 2002, figure 2 1-34 Y, P US 6,256,300 B1 (AHMED et al.), 03 JULY 2001, figures 3A, 7, 8A and 8B 1-34 **Special extegories of cited documents: *A* document defining the general state of the art which is not considered to be of particular relevance *B** earlier application or pattern published on or after the international filing date or priority action or pattern published on or after the international filing date or priority date in the document is related to enabled the priority date for other international reason (as specified) *C** document which may throw doubts on priority claim(s) or which is cited to enabled the priority date for other priority date claimed *C** document which may throw doubts on priority claim(s) or which is cited to enabled the obscincers is related inversion cannot be considered only one of one other work on a inventive step when the document is related with one or one other which with one or more other and bocuments, such combination being obvious to a person skilled in the art 20 September 2002 (20.09.2002) Name and mailing address of the ISA/US Commissioner of Parents and Trademarks Box PCT Washington, D.C. 20231 Facsimiles No. (703)305-3230		US 6,366,961 B1 (SUBBIAH et al.), 02 APRIL 200	2, abstract and figure 1	1-34
Y, P US 6,393,482 B1 (RAI et al.), 21 MAY 2002, figure 16 1-34 Y, P US 6,445,922 B1 (HILLER et al.), 03 SEPTEMBER 2002, figure 2 1-34 Y, P US 6,256,300 B1 (AHMED et al.), 03 JULY 2001, figures 3A, 7, 8A and 8B 1-34 **Tocument of firing the general state of the art which is not considered to be of particular relevance. The document of firing the general state of the art which is not considered to be of particular relevance of particular relevance. The document which may throw doubts on priority claim(s) or which is cited to establish the politication date of arother claimon or other special reason (as specified) **Commissioner published prior to the international filing date but later than the priority date claimed **Date of the actual completion of the international search 20 September 2002 (20.09.2002) Name and mailing address of the ISA/US Commissioner of Patents and Trademarks Box PCT Washington D.C. 20231 Facekintle No. (703)3005-3230 **Tocame of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is the considered to involve an inventive step when the document is related in the art of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is the considered to involve an inventive step when the document is particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is fained invention cannot be considered to involve an inventive step when the document is fained invention cannot be considered to involve an inventive step when the document is fained invention cannot be considered to involve an inventive step when the document is fained invention cannot be considered to involve an inventive step when the document is fained invention cannot be considered to involve an inventive step when the document is fained inventi			1-34	
V, P US 6,256,300 B1 (AHMED et al.), 03 JULY 2001, figures 3A, 7, 8A and 8B 1-34 Further documents are listed in the continuation of Box C. Special categories of cited documents: *A* document defining the general state of the art which is not considered to be of particular relevance *B* earlier application or pasent published on or after the international filing date or priority desired from the publication or pasent published on or after the international filing date or priority desired from the confidered to involve an invention cannot be established prior to the international filing date but later than the priority date claimed. Date of the actual completion of the international search 20 September 2002 (20.09.2002) Name and mailing address of the ISA/US Commissioner of Pasents and Trademarks Rep PCT Washington, D. C. 20231 Facsimile No. (703)305-3230 See patent family annex. *T* lister document family annex. *T* lister document published after the international filing date or priority date and not in conflict with the application but cited to understand the priority date and not in conflict with the application but into the international taken of another of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is uncentive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art of commissioner of Pasents and Trademarks Rep PCT Vashington, D. C. 20231 Facsimile No. (703)305-3230			1-34	
Further documents are listed in the continuation of Box C. See patent family annex. Further documents are listed in the continuation of Box C. Special categories of cited documents: "A" document defining the general state of the art which is not considered to be of particular relevance and the principle or theory underlying the invention and the principle or theory underlying the invention cannot be considered on or after the international filing date "A" document defining the general state of the art which is not considered to be of particular relevance; the claimed invention cannot be considered or involve an inventive step when the document is taken alone document is taken alone document published prior to the international filing date but later than the priority date claimed Date of the actual completion of the international search 20 September 2002 (20.09.2002) Name and mailing address of the ISA/US Commissioner of Patents and Trademarks Story PCT Weshington, D. C. 20231 Facsimile No. (703)305-3230 See patent family annex. "T" Islet document family annex. Islet document family annex. "A" document family annex. "T" Islet document family annex. Islet document family and not not retained to understand the principle or theory underlying the invention cannot be considered to inversion cannot be cons	Y, E			1-34
Special categories of cited documents: "A" document defining the general state of the art which is not considered to be of particular relevance "B" cartier application or patent published on or after the international filing date "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) "O" document referring to an oral disclosure, use, exhibition or other means "P" document published prior to the international filing date but later than the priority date claimed "Date of the actual completion of the international search 20 September 2002 (20.09.2002) Name and mailing address of the ISA/US Commissioner of Patents and Trademarks Box PCT Washington, D. C. 20231 Facsimile No. (703)305-3230 "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone "X" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is taken alone "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art "A" document published prior to the international filing date but later than the document member of the same patent family Date of mailing of the international search report 2 9 0 C T 2002 Authorized officer Huy Vu Telephone No. N/A Turgent	Y, P	US 6,256,300 B1 (AHMED et al.), 03 JULY 2001, figures 3A, 7, 8A and 8B		1-34
Special categories of cited documents: "A" document defining the general state of the art which is not considered to be of particular relevance "B" cartier application or patent published on or after the international filing date "L" document which may throw doubts on priority claim(s) or which is cited to establish the published prior to the international filing date but later than the priority date claimed "P" document referring to an oral disclosure, use, exhibition or other means "P" document published prior to the international filing date but later than the priority date claimed Date of the actual completion of the international search 20 September 2002 (20.09.2002) Name and mailing address of the ISA/US Commissioner of Patents and Trademarks Box PCT Washington, D.C. 20231 Facsimile No. (703)305-3230 "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is taken alone "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is taken alone "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is taken alone "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is taken alone "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is taken alone "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is taken alone "Y" document of particular releva	l			
Special categories of cited documents: "A" document defining the general state of the art which is not considered to be of particular relevance "B" cartier application or patent published on or after the international filing date "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) "O" document referring to an oral disclosure, use, exhibition or other means "P" document published prior to the international filing date but later than the priority date claimed "Date of the actual completion of the international search 20 September 2002 (20.09.2002) Name and mailing address of the ISA/US Commissioner of Patents and Trademarks Box PCT Washington, D. C. 20231 Facsimile No. (703)305-3230 "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone "X" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is taken alone "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art "A" document published prior to the international filing date but later than the document member of the same patent family Date of mailing of the international search report 2 9 0 C T 2002 Authorized officer Huy Vu Telephone No. N/A Turgent			•	
Special categories of cited documents: "A" document defining the general state of the art which is not considered to be of particular relevance "B" cartier application or patent published on or after the international filing date "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) "O" document referring to an oral disclosure, use, exhibition or other means "P" document published prior to the international filing date but later than the priority date claimed "Date of the actual completion of the international search 20 September 2002 (20.09.2002) Name and mailing address of the ISA/US Commissioner of Patents and Trademarks Box PCT Washington, D. C. 20231 Facsimile No. (703)305-3230 "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention cannot be considered no involve an inventive step when the document is taken alone "X" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is taken alone "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art document member of the same patent family Date of mailing of the international search report 2 9 OCT 2002 Authorized officer Huy Vu Telephone No. N/ATUMATUMATUMATUMATUMATUMATUMATUMATUMATUM	\			
Special categories of cited documents: "A" document defining the general state of the art which is not considered to be of particular relevance "B" cartier application or patent published on or after the international filing date "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) "O" document referring to an oral disclosure, use, exhibition or other means "P" document published prior to the international filing date but later than the priority date claimed "Date of the actual completion of the international search 20 September 2002 (20.09.2002) Name and mailing address of the ISA/US Commissioner of Patents and Trademarks Box PCT Washington, D. C. 20231 Facsimile No. (703)305-3230 "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention cannot be considered no involve an inventive step when the document is taken alone "X" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is taken alone "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art document member of the same patent family Date of mailing of the international search report 2 9 OCT 2002 Authorized officer Huy Vu Telephone No. N/ATUMATUMATUMATUMATUMATUMATUMATUMATUMATUM				· · · · · · · · · · · · · · · · · · ·
Special categories of cited documents: "A" document defining the general state of the art which is not considered to be of particular relevance "B" cartier application or patent published on or after the international filing date "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) "O" document referring to an oral disclosure, use, exhibition or other means "P" document published prior to the international filing date but later than the priority date claimed "Date of the actual completion of the international search 20 September 2002 (20.09.2002) Name and mailing address of the ISA/US Commissioner of Patents and Trademarks Box PCT Washington, D. C. 20231 Facsimile No. (703)305-3230 "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention cannot be considered no evel or carnot be considered to involve an inventive step when the document is taken alone "X" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is taken alone "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art document member of the same patent family Date of mailing of the international search report 2 9 0 C T 2002 Authorized officer Huy Vu Telephone No. N/AT Way Markington, D.C. 20231 Telephone No. N/AT Way Markington, D.C. 20231	1			
Special categories of cited documents: "A" document defining the general state of the art which is not considered to be of particular relevance "B" cartier application or patent published on or after the international filing date "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) "O" document referring to an oral disclosure, use, exhibition or other means "P" document published prior to the international filing date but later than the priority date claimed "Date of the actual completion of the international search 20 September 2002 (20.09.2002) Name and mailing address of the ISA/US Commissioner of Patents and Trademarks Box PCT Washington, D. C. 20231 Facsimile No. (703)305-3230 "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention cannot be considered no evel or carnot be considered to involve an inventive step when the document is taken alone "X" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is taken alone "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art document member of the same patent family Date of mailing of the international search report 2 9 0 C T 2002 Authorized officer Huy Vu Telephone No. N/AT Way Markington, D.C. 20231 Telephone No. N/AT Way Markington, D.C. 20231				
Special categories of cited documents: "A" document defining the general state of the art which is not considered to be of particular relevance "B" cartier application or patent published on or after the international filing date "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) "O" document referring to an oral disclosure, use, exhibition or other means "P" document published prior to the international filing date but later than the priority date claimed "Date of the actual completion of the international search 20 September 2002 (20.09.2002) Name and mailing address of the ISA/US Commissioner of Patents and Trademarks Box PCT Washington, D. C. 20231 Facsimile No. (703)305-3230 "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention cannot be considered no evel or carnot be considered to involve an inventive step when the document is taken alone "X" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is taken alone "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art document member of the same patent family Date of mailing of the international search report 2 9 0 C T 2002 Authorized officer Huy Vu Telephone No. N/AT Way Markington, D.C. 20231 Telephone No. N/AT Way Markington, D.C. 20231		·		
Special categories of cited documents: "A" document defining the general state of the art which is not considered to be of particular relevance "B" cartier application or patent published on or after the international filing date "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) "O" document referring to an oral disclosure, use, exhibition or other means "P" document published prior to the international filing date but later than the priority date claimed "Date of the actual completion of the international search 20 September 2002 (20.09.2002) Name and mailing address of the ISA/US Commissioner of Patents and Trademarks Box PCT Washington, D. C. 20231 Facsimile No. (703)305-3230 "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention cannot be considered no evel or carnot be considered to involve an inventive step when the document is taken alone "X" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is taken alone "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art document member of the same patent family Date of mailing of the international search report 2 9 0 C T 2002 Authorized officer Huy Vu Telephone No. N/AT Way Markington, D.C. 20231 Telephone No. N/AT Way Markington, D.C. 20231	1			
Special categories of cited documents: "A" document defining the general state of the art which is not considered to be of particular relevance "B" cartier application or patent published on or after the international filing date "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) "O" document referring to an oral disclosure, use, exhibition or other means "P" document published prior to the international filing date but later than the priority date claimed "Date of the actual completion of the international search 20 September 2002 (20.09.2002) Name and mailing address of the ISA/US Commissioner of Patents and Trademarks Box PCT Washington, D. C. 20231 Facsimile No. (703)305-3230 "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention cannot be considered no evel or carnot be considered to involve an inventive step when the document is taken alone "X" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is taken alone "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art document member of the same patent family Date of mailing of the international search report 2 9 0 C T 2002 Authorized officer Huy Vu Telephone No. N/AT Way Markington, D.C. 20231 Telephone No. N/AT Way Markington, D.C. 20231				
"A" document defining the general state of the art which is not considered to be of particular relevance "E" earlier application or patent published on or after the international filing date "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) "O" document referring to an oral disclosure, use, exhibition or other means "P" document published prior to the international filing date but later than the priority date claimed Date of the actual completion of the international search 20 September 2002 (20.09.2002) Name and mailing address of the ISA/US Commissioner of Patents and Trademarks Box PCT Washington, D.C. 20231 Facsimile No. (703)305-3230 document defining the general state of the art which is not considered to be principle or theory underlying the invention of another cited to the international filing date to considered novel or cannot be considered novel or cannot be considered to involve an inventive step when the document is elected to involve an inventive step when the document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art "A" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art "A" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents and invention cannot be considered to involve an inventive step when the document or more other such document or more other such document or more other su	Furthe	er documents are listed in the continuation of Box C.	See patent family annex.	shoul filing date or princity
"A" document defining the general state of the art which is not considered to be of particular relevance "B" earlier application or patent published on or after the international filing date "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) "O" document referring to an oral disclosure, use, exhibition or other means "P" document published prior to the international filing date but later than the priority date claimed Date of the actual completion of the international search 20 September 2002 (20.09.2002) Name and mailing address of the ISA/US Commissioner of Patents and Trademarks Box PCT Washington, D.C. 20231 Facsimile No. (703)305-3230		Special categories of cited documents:	date and not in conflict with the appl	ICSULUD DAY CIRCU AD ATTACHEMENT AND
of particular relevance "E" earlier application or patent published on or after the international filing date "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) "O" document referring to an oral disclosure, use, exhibition or other means "P" document published prior to the international filing date but later than the priority date claimed Date of the actual completion of the international search 20 September 2002 (20.09.2002) Name and mailing address of the ISA/US Commissioner of Patents and Trademarks Box PCT Washington, D.C. 20231 Facsimile No. (703)305-3230 document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is taken alone "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is taken alone "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is taken alone "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is taken alone "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is taken alone "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is taken alone "Y" document of particular relevance; the claimed to involve an inventive step when the document is taken alone "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is document on inventive an inventive step when the document is document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is document on inventive step when the document is a considered	"A" docume	nt defining the general state of the art which is not considered to be	principle or theory underlying the in	vention
when the document is taken alone "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) "O" document referring to an oral disclosure, use, exhibition or other means "P" document published prior to the international filing date but later than the priority date claimed Date of the actual completion of the international search 20 September 2002 (20.09.2002) Name and mailing address of the ISA/US Commissioner of Patents and Trademarks Box PCT Washington, D.C. 20231 Facsimile No. (703)305-3230 when the document is taken alone "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art document member of the same patent family The document published prior to the international search 29 OCT 2002 Authorized officer Huy Vu Telephone No. N/A Telephone No. N/A Telephone No. N/A	of partic	cular relevance	"X" document of particular relevance; th	e claimed invention cannot be
establish the publication date of another citation or other special reason (as specified) "O" document referring to an oral disclosure, use, exhibition or other means "P" document published prior to the international filing date but later than the priority date claimed Date of the actual completion of the international search 20 September 2002 (20.09.2002) Name and mailing address of the ISA/US Commissioner of Patents and Trademarks Box PCT Washington, D.C. 20231 Facsimile No. (703)305-3230 Telephone No. N/A Considered to involve an inventive step when the document is considered to involve an inventive step when the document is considered to involve an inventive step when the document is considered to involve an inventive step when the document is considered to involve an inventive step when the document is considered to involve an inventive step when the document is considered to involve an inventive step when the document is considered to involve an inventive step when the document is considered to involve an inventive step when the document is considered to involve an inventive step when the document is considered to involve an inventive step when the document is considered to involve an inventive step when the document is considered to involve an inventive step when the document is considered to involve an inventive step when the document is considered to involve an inventive step when the document is considered to involve an inventive step when the document is considered to involve an inventive step when the document is considered to involve an inventive such considered to involve an invention and considered t	"E" carlier	application or patent published on or after the international filing date	considered novel or cannot be considered movel or cannot be consid	BLEG TO RINGIAE WIT HINSHITAE BYCL
"O" document referring to an oral disclosure, use, exhibition or other means "P" document published prior to the international filing date but later than the priority date claimed Date of the actual completion of the international search 20 September 2002 (20.09.2002) Name and mailing address of the ISA/US Commissioner of Patents and Trademarks Box PCT Washington, D.C. 20231 Facsimile No. (703)305-3230 being obvious to a person skilled in the art document member of the same patent family Date of mailing of the international search report 2 9 0 C T 2002 Authorized officer Huy Vu Telephone No. N/A	establisi	h the publication date of another citation or other special reason (as	Althrowing as externing beautions.	en when the adductivity
"P" document published prior to the international filing date but later than the priority date claimed Date of the actual completion of the international search 20 September 2002 (20.09.2002) Name and mailing address of the ISA/US Commissioner of Patents and Trademarks Box PCT Washington, D.C. 20231 Facsimile No. (703)305-3230 Date of mailing of the international search report 2 9 OCT 2002 Authorized officer Huy Vu Telephone No. N/A	1 -		combined with one or more other su	ch documents, such comountation
Date of the actual completion of the international search 20 September 2002 (20.09.2002) Name and mailing address of the ISA/US Commissioner of Patents and Trademarks Box PCT Washington, D.C. 20231 Facsimile No. (703)305-3230 Date of mailing of the international search report 2 9 OCT 2002 Authorized officer Huy Vu Telephone No. N/A	"P" docume	ent published prior to the international filing date but later than the	"&" document member of the same pater	x family
20 September 2002 (20.09.2002) Name and mailing address of the ISA/US Commissioner of Patents and Trademarks Box PCT Washington, D.C. 20231 Facsimile No. (703)305-3230 Authorized officer Huy Vu Telephone No. N/A			Date of mailing of the international se	earch report
Name and mailing address of the ISA/US Commissioner of Patents and Trademarks Box PCT Washington, D.C. 20231 Facsimile No. (703)305-3230 Authorized officer Huy Vu Telephone No. N/A	1		2 9 OCT 2002	<u> </u>
Commissioner of Patents and Trademarks Box PCT Washington, D.C. 20231 Facsimile No. (703)305-3230 Huy Vu Telephone No. N/A	20 Septemb	per 2002 (20.09.2002)	Authorized officer	
Box PCT Washington, D.C. 20231 Facsimile No. (703)305-3230 Telephone No. N/A Wylinia Telephone No. N/A	Name and i	ommissioner of Patents and Trademarks		.
Facsimile No. (703)305-3230 Telephone No. N/A Telephone No. N/A Form PCT/ISA/210 (second sheet) (July 1998)	j Bo	OX PCT	Huy Vu / K //r/a.	in Knna.
Form PCT/ISA/210 (second sheet) (July 1998)			Telephone No. N/A	no joyan

	PCT/US02/20380	
INTERNATIONAL SEARCH REPORT	1	
	}	ļ
·		
		:
		*
·		
- A TO THE THE SEADCHED Item 2.		
Continuation of B. FIELDS SEARCHED Item 3: USPAT		
search terms: radio network, mobile, wireless, IP address		•
·		
		* * *
1		

Form PCT/ISA/210 (second sheet) (July 1998)